Guess Paper Biology inter -I

Al-Qadir Jinnah Science Academy Mallian Kalan

# **Guess Paper 2021 (ALP)**

MITERIE J. CO.

امتحان میں 100% کامیابی کی گارنٹی

# BIOLOGY

\ Setter كذ بن كومد نظرر كه كرتيار كي كخ سوالات

اب وقت انتهائی کم ره کیا ہے۔

\*صرف 15دن کے اندر بورڈ امتحان کی مکمل تیاری کویں۔

الم ترين مخفسر وانوائي اور حسل شده معسروضي موالات كالم

MCQ S.Qs L.Qs 337 221 15

پنجاب کے تمام بورڈ کے لیے (اعلیٰ نمبروں کے حصول کی ضمانت)

ہمیں تشہید کی خواہش نہیں بسس روسشن کی ہے کی کو مت بتانا یہ دیے ہم نے حبلائے ہیں

## **Objective Type**

1	The basic unit of classification is					
	a) Genus	b) Phylum	√c) Species	d) Class		
2	Orders include related					
	a) Species	√b) Genera	c) Classes	d) Family		
3	The thick walled repro	ductive cells of cyanobacter	ia are called	W. AF .		
	a) Heterocyts	√b) Akinete	c) Hormogonia	d) All of these		
4	Which of the one in th	e following is a prokaryote	6	100		
	a) Amoeba	b) Algae	c) Fungi	✓d) Blue green algae		
5	Reserve food material	In Cyanobacteria is	. 1011	h 400		
	a) Starch	√b) Glycogen	c) Fats	d) All of these		
6	An example of aerobic	: bacterium is	10 10 10	10 Th		
	a) Camplyobacter	b) E.Coli	√c) Pseudomonas	d) Spirochete		
7	Which one of t he folio	owing is anaerobic bacteria	AND WAY			
	a) E.Coli	b) Spirochete	√c) Pseudomonas	d) Campylobacter		
8	Bacteria without any f	lagella are called	TO TO			
	a) Peritrichous	√b) Atrichous	c) Monotrichous	d) None of these		
9	Reserve food material	in cyanobacteria is	465464			
	√a) Glycogen	b) Cellulose	c) Glucose	d) Starch		
10	Which is the anaeroble	c bacterium	-			
	√a) Spirochete	b) Pseudomonas	c) Campylobacter	d) E.Coli		
11	Spirochete is a bacterium					
	a) Aerobic	√b) Anaerobic	c) Facultivate	d) None of these		
12	The pore by which the	water leaves the body of sp	onges is called			
	a) Ostia	b) Mouth	c) Anus	√d) Osculum		
13	The inner layer of mos	t sponges is called				
	a) Pinacoderm	√b) Choanoderm	c) Endoderm	d) Epiderm		
14	An example of beautiful and delicate sponge called Venus flower basket is					
	a) Sycon	b) Leucosolenia	c) Euplectella	√d) Spongilla		
15	In sponges asexual rep	production takes place by bu	ding . The internal buds are	called		
	a) Globules	√b) Gemmules	c) Endosperm	d) Cyst		
16	Excess gastric secretio	n is an important factor of	,			
	a) Obesity	b) Piles	c) Food poisoning	√d) Peptic ulcer		
17	Fresh saliva has pH					
	a) 4	√b) 6	c) 8	d) 7.3		
18	Taste buds of tongue	olay important role in food	,			
	a) Digestion	√b) Selection	c) Lubrication	d) Mastication		
19	Which of the following					
	a) Drosera	b) Dionea	✓c) Cuscuta	d) Sarracenia		
20	pH of fresh saliva is ne					
	√a)6	b) 7	c) 8	d) 9		
21		ns is an important factor of				

	✓a) Peptic ulcer	b) Obesity	c) Piles	d) Food poisoning	
22	Length of the duodenum	is			
	a) 20 - 25 cm	√b) 20 - 25 meters	c) 20 - 25 mm	d) 20 - 25 Km	
23	Which one of the followi	ng is not a ciliate ?			
	a) Stentor	b) Paramecuim	√c) Trypanosoma	d) Vortecella	
24	One or small diploid micr	onodel of cillates function	in .		
	a) Sexual process	√b) Sheath	c) Pellicle	d) Cuticle	
25	Test of forminifera is made	de of .		A 968 A	
	a) Silica	b) Calcium	✓c) Calcium phosphate	d) Chitin	
26	Mosquito Injects		0	180	
	a) Merozoites	b) Oocytes	c) Gametocytes	√d) Sporozoites	
27	Apicomplexans move by		a 9779	100	
	a) Tube feet	b) Cilia	√c) Flexing	d) Pseudopodia	
28	Mosquito injects plasmo	dium to human in the form	of.	3. 4	
	√a) Sporozoites	b) Gametocytes	c) Merozoites	d) Cysts	
29	The sexual process is exh	ibited by most cilites by .	ADD . 1924		
	a) Binary fission	√b) Conjugation	c) Budding	d) Fertilization	
30	Sleeping sickness is sprea	id by .	- B B B		
	√a) Tsetse fly	b) Mosquito	c) Trypanosoma	d) Plasmoduim	
31	Study of tissue is called .		15 40	•	
	a) Microbiology	b) Morphology	√c) Histology	d) Anatomy	
32	The branch of Biology wh	ich deals with the study of	environment relations of or	ganisms is called.	
	a) Morphology	√b) Ecology	c) Evolution	d) Zoogeography	
33	The study of parasite is o		0		
	a) Paleontology	b) Histology	c) Mircorbiology	d) Parasitology	
34	Internal morphology is al	so called .			
	a) Physiology	√b) Anatomy	c) Histology	d) Paleontology	
35	The branch of biology wh	ich deals with study of ano	estral history is .		
	a) Genetics	b) Zoogerography	c) Evolution	√d) Paleontology	
36	Biology is short of laws b	ecause of .		,	
	✓a) Exclusive nature of life	b) Large population of human	c) Less falsification	d) Less tentation	
37	The tentative explanation	n of observation .			
	a) Hypothesis	b) Deduction	c) Law	d) Theory	
38	In deductive reasoning w	e move from .	'		
	√a) General to specific	b) General to general	c) Specific to general	d) Specific to specific	
39	The second secon	ontinues to be supported b	y experimental evidence be	comes a .	
	a) Hypothesis	b) Universal formula	√c) Scientific law	d) Deduction	
40	Transgenic plants can be	1			
	a) Gene manipulation	√b) Cloning	c) Genetic engineering	d) Tissue culture technique	
	Which of the following are being used as blo - pesticides ?				
41	Which of the following a	re being used as blo - pestic	ides ?		

	a) Edward jenner	b) Robert Koch	c) Chamberlandt	√d) Louis Pasteur
43	The percentage by weigh	t of RNA in a bacterial cell	is .	
	a) 0.25 %	b) 2 %	c) 3 %	√d) 6 %
44	Which of the following Is	a group of organic compo	unds?	*
	a) Lipids , nucleic acids and nitric acid	✓b) Carbohydrates , lipids , nucleic acids	c) Proteins , acids , lipids	d) Carbon dioxide , acids bases
45	Of the total weight of a b	acterial cell , carbohydrate	s constitute only .	,670s.
	a) 2 %	b) 1 %	√c)3%	d) 4 %
46	18 % of the total weight	of a mammalian cell is the		9. 9. 10
	a) Water	√b) Proteins	c) Carbohydrates	d) Lipids
47	-	mmalian cell , DNA forms .	6.7	O 30
	a) 1 %	b) 1.1 %	c) 6 %	√d) 0.25 %
48	In bacterial cells the water		40.8	4 47 612.5 76
10	√a) 70 %	b) 40 %	c) 60 %	l d) 50 %
49		ates in mammalian cell is .	c) oo n	1010210
43	a) 1 %	b) 2 %	c) 3 %	√d) 4 %
50	In free state , glucose in p	1	C1 2 X0	A (1) 4 34
Ju		b) Amylose	c) Glycogen	d) Cellulose
E4	✓a) Dates  Most abundant carbohyo	and the second second	c) giveokeii	o) cendiose
51	a) Statch		12.000	l d\ Anne
		b) Glycogen	√c) Cellulose	d) Agar
52	Cotton is a pure .	b) Dalam dife of diff.	l a) Calledon	45 D - 46 - 0 6
	✓a) Cellulose	b) Polysaccharide	c) Cellulose	d) Both a & b
53	Animals obtain carbohyd		1 10	0.00
	a) Glucose	√b) Starch	c) Sucrose	d) Glycogen
54	Which one of following is	1 100	Lvara	Tarai v i
	a) Rubber	√b) Chitin	c) Cutin	d) Cholesterol
55		of compound related to fat		
	a) Proteins	√b) Lipid	c) Carbohydrate	d) Nucleic Acid
56	Lipids are insoluble in .	*0s. *bd*		
	√a) Water	b) Chloroform	c) Alcohol	d) Carbon tetra chloride
57	Which one of the follows	ng is not lipid ?		
	a) Cholesterol	b) Wax	c) Terpenes	✓d) Keratin
58	Iron containing protein is			
	a) Cytochrome	√b) Ferredoxin	c) Plastocyanin	d) Plastoquinone
59	Which of the following is	not a fibrous protein .		
	a) Keratin	b) Myocin	c) Fibrin	√d) Hormones
60	In the			
	√a) 3-6	b) 4-6	c) 5-6	d) 6-6
61		rmones and hemoglobin a	re examples .	1
	a) Carbohydrates	√b) Globular proteins	c) Fibrous proteins	d) Lipīds
62	1	ple of which functional clas		
	a) Contractile	b) Structural	✓c) Transport	d) Regulatory
63	1	with maintaining primary s		, , ,
	√a) Disculfide bond	b) Peptide bond	c) Ester bond	d) Hydrogen bond

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64		_	alpha helix shape of protei	n;		
	a) Disulphide bond	b) Peptide bond	c) Ester bond	√d) Hydrogen bond		
65	Which of the following str	ucture is best represents st	ructure of haemoglobin?			
	a) Primary	b) Secondary	c) Tertiary	√d) Quaternary		
66	Amino acids are linked to	each other by .				
	a) Ester bond	b) Glysocidic	c) Hydrophobic	√d) Peptide bond		
67	An amino acid contains an	amino group and a carbox	ryl group attached to the sai	me .		
	√a) Carbon atom	b) Hydrogen atom	c) Nitrogen atom	d) Oxygen atom		
68	Poisons like cyanide , antib	piotics , anti-metabolites ar	nd some drugs are example	s of .		
	a) Holoenzymes	√b) Inhibitors	c) Coenzymes	d) Enzymes		
69	An inhibitor is a chemical		- 9	No. A		
	a) Enzyme	b) Protein	√c) Substance	d) None of these		
70	An inhibitor react with ena	yme but not transformed	into A A	196.		
	a) Enzyme	√b) Product	c) Co-enzyme	d) None of these		
71	The inhibitor which may d	estroy the globular structu	re of enzyme is .			
	a) Competitive	b) Non-competitive	√c) Irreversible	d) Reversible		
72	Irreversible inhibitors form	which bond with active si				
	a) Hydrogen bonds	b) Ionic bonds	✓c) Covalent bonds	d) Hydrophobic bonds		
73	The reversible inhibitors usually constitute					
	a) Strong linkage with	b) No linkage with	✓c) Weak linkage with	d) Medium linkage with		
	enzyme	enzyme	enzyme	enzyme		
74	Non-competitive inhibitors form enzyme inhibitor complex at a point other than the .					
	a) Catalytic site	√b) Active site	c) Binding site	d) Non-catalytic site		
75	Three dimensional globula	r protein is .	D-			
	a) Starch	b) Glucose	c) Antibiotic	√d) Enzyme		
76	Enzyme lowers down the	energy of .				
	a) Kinetic	bj Potential	✓c) Activation	d) lonic		
77	Small amounts of an					
	a) Protein	b) Lipid	✓c) Enzyme	d) None of these		
78	Some enzymes require a	for their proper function	The second secon			
	a) Co-enzyme	√b) Co-factor	c) Holoenzyme	d) Apoenzyme		
79	Pepsinogen is an	1307		1		
	a) Active	√b) Inactive	c) Inhibitor	d) None of these		
80	Which statement about en			1 .		
	a) They consist of	b) They change the rate	c) They are sensitive to	✓d) They are non-		
	proteins, with or without	of catalyzed reaction	heat	specific in their action		
	a non-protein part					
81	An enzyme is a three dime	nsional protein.				
	a) Fibrous	b) Elastic	✓c) Globular	d) Insoluble		
82	Induced fit model was pro	posed by .				
	a) Emil Fisher	√b) Koshland	c) Jenner	d) Pasteur		
83	Lock and key model was p	roposed by .				
	√a) Emil Fisher	b) Koshland	c) Rudolph Virchow	d) Lorenz Oken		
84	Any factor that can alter th	ne chemistry and shape of	an enzyme can effect its rat	e of .		

	a) Activity	b) Hydrolysis	✓c) Catalysis	d) Photolysis
85	The catalytic activity of	an enzyme is restricted to its s	mall portion called .	
	√a) Active site	b) Allosteric site	c) Binding site	d) Catalytic site
86	Koshland in 1959 propo	sed the modified form of .		
	a) Fluid mosaic model	b) Unit membrane model	c) Induce Fit model	√d) Lock and key model
87	The active site of the en	zyme is made up of two defin	ite regions i.e., the binding	site and the
	a) Non-binding site	b) Non-catalytic site	c) Inactive site	√d) Catalytic site
88	The non protein part of	enzyme responsible for its pro	per functioning is known a	as. Wall A
	a) Substarte	√b) Cofactor	c) Reactant	d) Product
89	Poisons like cyanide , an	itibiotics , anti-metabolites an	d some drugs are example	s of .
	a) Holoenzymes	√b) Inhibitors	c) Coenzymes	d) Enzymes
90	An inhibitor is a chemica	al	A 87 9	A. 1
	a) Enzyme	b) Protein	√c) Substance	d) None of these
91	An inhibitor react with e	enzyme but not transformed in	nto Assa	9 9
	a) Enzyme	√b) Product	c) Co-enzyme	d) None of these
92	The inhibitor which may	destroy the globular structur	e of enzyme is .	
	a) Competitive	b) Non-competitive	√c) Irreversible	d) Reversible
93	Irreversible inhibitors fo	rm which bond with active sit	Mary Total State S	
-	a) Hydrogen bonds	b) Ionic bonds	√c) Covalent bonds	d) Hydraphabic bonds
94	The reversible inhibitors	s usually constitute.	GE 707	
	a) Strong linkage with	b) No linkage with	√c) Wear linkage with	d) Medium linkage with
	enzyme	enzyme	enzyme	enzyme
95	Robert Brown reported	the presence of		,
	a) Lysosome	b) Ribosomes	c) Mitochondria	√d) Nucleus
96	Nucleus can be seen in a	. 60-02 0		
	a) Mature cell	√b) Non-dividing cell	c) Germinating cell	d) Dividing cell
97	Nucleus contains soluble	The state of the s		
	a) Protoplasm	b) Cytoplasm	✓c) Nucleoplasm	d) Nuclear sap
98	The size of prokaryotic r	ibosome is .		
	a) 30S	b) 50S	√c) 70S	d) 80S
99	Prokaryotes include blu	e - green algae and .	,	
	a) Viruses	√b) Bacteria	c) Protozoans	d) Protists
100	The prokaryotic cell can	divide by .		
	a) Multiple fission	b) Mitosis	c) Meiosis	✓d) Binary fission
101	Perhaps the most distin	ctive feature of prokaryotic ce	ill is its .	T ap a life p a life con
	a) Cell membrane	b) Hereditary material	c) Ribosomes	√d) Cell wall
102	Binomial system of nom	enclature was devised by .		
	a) E-Chatton	b) Robert Whittaker	c) Ernst Hackle	√d) Carlous Linnaeus
103	The Common name for	1 .		tiiiiiiseas
	a) Onion	√b) Brinjal	c) Potato	d) Amaltas
		of taxonomy , developed during	-	
104	an organism's name is it		_	*
	a) Species	√b) Genus	c) Race	d) Family

Guess Paper Biology inter -I Al-Qadir Jinnah Science Academy Mallian Kalan a) 1747 b) 1748 d) 1753 √c) 1758 In the scientific name of onion, Allium cepa, the Allium belongs to its. 106 b) Group c) Species d) Family √a) Genus Scientific name has advantage of having . 107 a) No scientific basis d) Same name applied to c) Same organisms having √b) Scientific basis and different names in different organism universally accepted different areas Carlous Linnaeus took the scientific name from . 108 d) Urdu word a) Greek word b) Arabic word √c) Latin word Initially, the classification was based on. 109 a) Genetic features d) Cytology b) Physiology √c) Morphology 110 The basic unit of classification is . a) Genus b) Phylum c) Class √d) Species Solanum esculentum is the scientific name of . 111 a) Potato b) Tobacco c) Onion √d) Tomato Phylogeny describes a species. 112 c) Reproductive a) Morphological d) Geographical √b) Evolutionary history similarities with other compatibilities with other distribution species species In the five - kingdom system of classification developed by Robert Whittaker, member of the kingdom 113 Plantae are autotrophic, eukaryotic and. b) Either unicellular or d) Have sexual c) Motile √a) Multicellular multicelliular reproduction Five kingdom system of classification proposed by Margulis and Schwartz is not based on . 114 c) Cellular organization d) Mode of nutrition a) Genetics √b) Nucleic Acid ► A third Kingdom protista was proposed to accommodate Euglena like organisms and bacteria, in 1866 by . 115 a) E-Chatton c) Linnaeus Carlous d) Aristotle √b) Ernst Hackel The system of classification associated with three principal modes of nutrition photosynthesis, absorption 116 and ingestion was proposed by . b) Carlous Linnaeus c) Margulis & Schawartz d) Ernst Hackel √a) Robert Whittaker Kingdom Animalia include eukaryotic multicellular. 117 b) Reducers c) Producers d) Decomposers √a) Consumers Bactria range in size from about 0.1 to 118 c) 700 d) 800 a) 500 / √b) 600 The smallest bacteria are approximately the size of the largest viruses i.e. 119 a) Paramyxoviruses b) Adenoviruses c) Parvoviruses √d) Poxviruses The diameter of staphylococcus and streptococcus is about . 120 a) 100 - 200 nm d) 2-6 b) 1.5 - 2 √c) 0.75 - 1.25 An outer flexible covering of ciliates is . 121 a) Cell wall c) Sheath d) Cuticle √b) Pellicle Amoebic dysentery in . 122 a) Amoeba b) Plasmodium √c) Entamoeba d) Trypanosoma histolytica 123 Entamoeba histolytica cause amoebic . b) Fever a) Cholera d) Migraine √c) Dysentery

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124	The tsetse fly of African o	ountries transmits trypa	nosome , the cause of .	
	√a) Sleeping sickness	b) Measles	c) Lung infection	d) Malaria
125	The protozoans having tv	vo kinds of nuclei .		
	a) Zooflagellates	b) Amoeba	√c) Ciliates	d) Actinopods
126	Amoeba moves and obta	ins food by means of .		
	a) Flagella	√b) Pseudopodia	c) Flexing	d) Cilia
127	Pelomyxa palustris is an i	example of		000
	a) Bacterium	b) Cilliate	c) Algae	√d) Amocba
128	Pelomyxa Palustris is con	smonly called .		Sec. 1000
	a) Entamoeba	b) Trypanosoma	c) Trichonymphas	√d) Giant amoeba
129	The example of zooflagel	lates is .		P. A.
	a) Forams	b) Voritcella	c) Entamoeba	√d) Trypanosoma
130	One of the most unusual	protest phylum is that of	De la Sta	196.
	√a) Dinoflagellates	b) Zooflagellates	c) Euglenoids	d) Domycotes
131	What regulation in fresh	vater cillates is controlle	d by special organelles called.	
	a) Vacuoles	b) Golgi apparatus	√c) Contractile vacuoles	d) Lysosomes
132	Complex specialized flage	lates with many flagella	are.	
	√a) Trichonymphas	b) Trypanosoma	c) Euglena	d) Vorticella
133	The protists that live as s	ymbionts in the guts of to	ermites and help in the digestio	on of dry wood are .
	√a) Trichonymphas	b) Trypanosoma	c) Euglena	d) Vorticella
134	Members of phylum chry	sophyta are commonly c	alled.	
	a) Brown Algae	b) Red Algae	c) Dinoflagellates	√d) Diatoms
135	Algae which take part in	building coral reefs along	with coral animals are .	
	√a) Red algae	b) Brown algae	c) Green algae	d) Diatoms
136	Diatoms belongs to phylu	m.	9	
	a) Rhodophyta	b) Phaeophyta	✓c) Chrysophyta	d) Pyrrophyta
137	The largest brown algae	re called .		
	a) Diatoms	√b) Keips	c) Dinoflagellates	d) Gelidium
138	The edible algae is .	70, TuF		
	√a) Mushroom	b) Keips	c) Dinoflagellates	d) Diatoms
139	Length of brown algae ra	nge from few centimeter	s to .	
	a) 170 meters	√b) 75 meters	c) 70 meters	d) 75 cm
140	Most green algae possess	cell wall with .		
	√a) Cellulose	b) Chitin	c) Siliea	d) Pectin
141	Phyco erythrin is found is			
	a) Green algae	√b) Red algae	c) Brown algae	d) Blue green algae
142	Which of the fallowing po	ossess leaf like blades , st	em like stipes , and root like ar	nchoring holdfast ?
	a) Eucalyptus	b) Agaricus	√c) Kelps	d) Phytophthora
143	Most green algae possess	cell walls with .		
	√a) Cellulose	b) Chitin	c) Peptidoglycan	d) Pectin
144	Which phylum of algae de	o not have forms with fla	gellated motile cells in at least	one stage of their life cycle
	a) Contamento to	h) Chloselves		d) Observable
	a) Euglenophyta	b) Chlorophyta	✓c) Rhodophyta	d) Phaeophyta
145	Which is member of Pyrre	opnyta :		

	ss Paper Biology Inter a) Uiva	√b) Gonyaulax	Qadir Jinnah Science Aca c) Fuscus	d) Frequilaria		
146	Marine algae are also sou			o) mequilaria		
140	a) Algin	b) Agar	c) Carrageenan	Jal All afthora		
147	Oomycotes are close relat	1	c/ Carrageerian	✓d) All of these		
147		1	al Brotoves	d\ Dastaria		
-	a) Algae	√b) Fungi	c) Protozoa	d) Bacteria		
148	Which one has played infamous roles in human history as they were the cause of Irish potato famine of the 19th century?					
	a) Entomoeba histolytica	b) Physarum	c) Trypanosoma	√d) Phytophthora		
		polycephalum	gambiense	infestans		
49	,	1	of cytoplasm that can grow in	diameter to .		
	a) 5 cm	b) 10 cm	c) 20 cm	√d) 30 cm		
50	Cell walls of Oomycotes co	ontain .	1000	4007		
	✓a) Cellulose	b) Chitin	c) Peptidoglycan	d) Glycogen		
51	Fungus - like protists have	bodies formed of thread	like structures called.	196		
	a) Fibres	b) Yarns	√c) Hyphae	d) Twines		
.52	The plasmodial slime mol-	d that is a model organism				
	✓a) Physarum polycephahum	b) Ustilago tritici	c) Phytophthora infestans	d) Frequilaria		
53	Oomycotes include a num	ber of pathogenic organis	sms , including .	J		
	a) Physarum polycephalum	b) Rhodotorula	✓c) Phytophthora infestans	d) Candida albicans		
54	Parasitic fungi directly absorb nutrients from living host by .					
	√a) Haustoria	b) Roots	c) Rhizoids	d) Gametangia		
55	The cell wall of fungus cor		- Francoica	ay come to igit		
.33	a) Cellulose	√b) Chitin	c) Calcium carbonate	d) None of these		
56			cy calcium carbonate	d) Notice of these		
36	Non-septate hyphae are called					
	a) Monokaryotic	b) Dikaryotic	c) Mononucleatic	d) Coenocytic		
57	The body of a fungus ( exc		1	-0 Possification		
	a) Thallus		√c) Mycelium	d) Prothallus		
58	The non - hyphal unicellul	100	1	T		
	√a) Yeasts	b) Morels	c) Truffles	d) Puffballs		
59		The state of the s	rtion , the process is called			
	a) Biological control	√b) Bioremediation	c) Fungal culture	d) Hydroponic		
60	Lichens are very good	of air quality .				
	a) Bioremediation	√b) Bioindicators	c) Both a & b	d) None of these		
61	Kindgdom plantae mainly develop from	includes eukaryotic , auto	otrophic , multicellullar , non π	notile organisms which		
	a) Zygote	√b) Embryo	c) Seed	d) None of these		
62	The sporophyte of bryoph	ytes is .				
	a) Haploid	√b) Diploid	c) Triploid	d) Tetraploid		
163	Which plants are said to b		plant world ?			
	a) Angiosperms	√b) Bryophytes	c) Trachaeophytes	d) Spermatophytes		
64	Production of two types of			1		

Guess Paper Biology Inter -I Al-Qadir Jinnah Science Academy Mallian Kalan Which of the following is a modified leaf? d) Both b & c a) Tendril b) Thorn √c) Flower The process of evolution of leaf was completed in more than. 166 a) 15 - 16 million year b) 15 - 19 million year c) 15 - 17 million year √d) 15 - 20 million year Which of the following were the first plants that formed true leaves and roots? 167 d) Ferns a) Psilopsids √b) Lycopods c) Megaphylls When the forn in immature and young , it is coiled , this pattern of development is called . 168 a) Nutation b) Circum nutation d) Reticulate vernation √c) Circinate vernation Large leaves having divided veins and veinlets with an expanded leaf blade or lamina are known as . 169 d) Compound leaf a) Microphylls c) Frond √b) Megaphylls The leaves are called fronds in class. 170 d) Sphenopsida a) Angiospermae c) Gymnospermae √b) Filicineae 171 Sori are protected by the bent margin of the leaflet, forming false. d) Capsule √a) Indusium b) Stomium c) Annulus 172 The microspores produced inside mircroporangia germinated to form. a) Male gametophyte b) Microgametophyte c) Female gematophyte √d) Both a & b It is a dry , indehiscent fruit in which fruit wall is completely fused with seed coat . 173 a) Dryopsis b) Testa d) Legume √c) Caryopsis Development of protective layers around megasporangium is called . 174 b) Embryo sac d) None of these a) Microsporangium √c) integument The distal end of the megasporanglum became modified for capturing 175 a) Fruit b) Seed c) Zygote √d) Pollen 176 In this group animals with ...... symmetry have been included . √a) Radial b) Bilateral c) Both a & b d) None of these In grade radiate the animal is divide into two equal halves and are 177 d) None of these b) Opposite c) Right angle √a) Mirror image All the animals in grade radiate are 178 c) Tetrablastic d) Both a & b a) Triploblastic √b) Diploblastic Water is more viscous than air . 179 a) 10 times b) 20 times d) 100 times √c) 50 times The exchange of gases ( CO2 and O2 ) between the organism and its environment is called . 180 b) Cellular respiration c) External respiration d) Anaerobic respiration √a) Respiration Oxygen contents of fresh air are . 181 b) 100 ml / litre d) 150 ml / litre c) 10 ml / litre √a) 200 ml / litre During photorespiration, glycine in converted into serine in the. 182 d) Chloroplast √a) Mitochondria b) Ribosome c) Golgi Bodies 183 During photorespiration, glycolate diffuses into the membrane bounded organelle named as . a) Mitochondria b) Ribosome d) Golgi Bodies √c) Peroxisome The main sites of exchange of gases in plants are . 184 b) Lenticel c) Cuticle d) Epidermis √a) Stomata Respiration activity which occurs in plants during day time is called 185 d) None of these a) Respiration √b) Photorespiration c) Digestion In the mitochondria where two glycine molecules are converted into 186

	a) Glycine	✓b) Serine	c) ATP	d) Glycolate	
187	Guard cells become turgid	and stoma or pore			
	a) Close	√b) Open	c) Both a & b	d) None of these	
188	is incorrect about guard ce	ells ,			
	a) Have chloroplasts	✓b) Connected to surrounding cells by plasmodesmata	c) Surrounding stoma	d) Bean shaped	
189	According to one hypothes	sis , stomata opens due to	the active transport of .		
	a) Sodium	√b) Potassium	c) Sulphur	d) N trogen	
190	A circulatory fluid is the				
	√a) Blood	b) Water	c) Secretion	d) Hormones	
191	A contractile pumping dev		-7	124. 4.	
	a) Lung	b) Liver	√c) Heart	d) Vein	
192	Normal pH of human bloo	,	A c) Liedir	J GJ Y CIT	
132	a) 4.4	b) 5.4	c) 6.4	245.7.4	
102	Which of the following is r			√d) 7.4	
193_	a) Produced by basophil s		c) Cause inflammation	√d) Released by Eosinophi s	
194	Platelets are fragments of	large cells called .			
	a) Microkaryoctyes	b) Erythrocytes	√c) Megakaryocytes	d) Leucocytes	
195	One cubic millimeter of human male blood contain RBC .				
	a) 4 - 4 5 millions	√b) 5 5.5 m liions	c) 6 - 6.5 millions	d) 7 - 7.5 millions	
196	The plasma proteins constitute percent by weight of plasma .				
	√a)7-9%	b) 9 - 11 %	c) 11 - 13 %	d) 13 - 15 %	
197	Histamine is produced by		-,	, -,	
	a) Neutrphils	b) Eosinoophils	√c) Basophils	d) Moncytes	
198	Thalassaemia is also called		4 C) 0830pinis		
130	√a) Cooley's anaem a	b) Thomas anaemia	c) Pete's anaemia	d) Mend 's anaemia	
199	Enlargement of spicen is s		C) rete a dilacilità	a) Meila 3 ottaeritta	
133	a) Blood cancer	b) Thalassaemia	c) Odema	7.4\ 11	
non.			Су ОФЕНТА	√d) Hepatitis	
200	The substance which inhib		al Edward	4\ A b	
	√a) Heparin	b) Histamine	c) Fibr n	d) Albumin	
201	The helps defend the			15.45	
	a) Circulatory system	√b) Lymphatic system	c) Heart	d) None of these	
202	Antibodies are produced f		T		
	a) Eosinph Is	b) Basophils	c) Monocytes	✓d) Lymphocytes	
203	Antiserum is a serum cont		1		
	√a) Antibodies	b) Antigen	c) Antibiotics	d) Anticancer chemicals	
204	In cell mediated response				
	a) B - cells	√b) T cells	c) Lymphs	d) None of these	
205	Antigen or immunogen is a	a foreign substance, often	a protein which stimulates	the formation of	
	√a) Antibodies	b) Antiseptic	c) Both a & b	d) None of these	
206	The use of which st	imulate the production of	antibodies in the body, and	making a nerson immune	

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207	Naturally induced immun	ity is also called			
	√a) Auto immune	b) Anti serum	c) Passive immunity	d) None of these	
208	Curved or comma shaped	bacteria are called .			
	√a) Vibrio	b) Spirilum	c) Spirochetes	d) Bacilli	
209	When cocci occur in pairs	, their arrangement is .√€	xample of rod shaped bacter	ia ıs .	
	a) Spirocheta	b) H microbium	c) S.Aureus	√d) Escherichia coli	
210	When cocci form long cha	in of cells then arrangeme	nt is called as .		
	a) Tetrad	b) Diplococcus	c) Sarcina	√d) Streptococci	
211	A tetrad is a square of .				
	a) 2 Cocci	√b) 4 Cocci	r) 6 Cocci	d) 8 Cocci	
212	When the division is in th	ree planes , it will produce	э.		
	√a) Sarcina arrangement	b) Tetrad arrangement	c) Bivalent arrangement	d) Helical arrangement	
213	When division occurred is	random planes it will pro-	duce a — arrangement.		
	√a) Staphylococcus	b) Diplococcus	c) Streptococcus	d) Bacillococcus	
214	If tuft of flagella is presen	t only at one pole of bacte	ria then these are called as .		
	a) Monotrichous	b) Peritrichous	c) Amphitrichous	√d) Lophotrichous	
215	Bacterial pathogenicity is	due to .			
	a) Enve ope of all cell	b) Capsule	√c) SI-me	d) Ce I wall	
216	Important vector in mode	rn genetic .			
	a) Nucleoid	√b) Plasmid	c) Mesosome	d) Ribosome	
217	Cysts are dormant , thick - walled , desiccation resistant forms and develop during				
	a) Late stage of ce.l	b) Differentiation of	√c) Differentiation of	d) During conjugation	
	growth	reproductive cells	vegetative ceils		
218	When tuft of flagella is pr	esent at each of two poles	in bacteria is known as .		
	a) Artichous	b) Lopthorichous	c) Peritrichous	√d) Amph trichous	
219	Mesosomes are internal e	extensions of .			
	a) Ceil wall	b) Golgi complex	√c) Cell memebrane	d) Endoplasmic reticulun	
220	Cell wall is absent in .	7.7%			
	a) E.Coli	√b) Mycoplasma	c) Vibrio	d) Spriochete	
221	Pill are made up of special protein called .				
	√a) Pillin	b) Flagelliri	c) Tubulin	d) Myosin	
222	Bacteria without any flago	ella are called			
	a) Amphitrichous	b) Monotrichous	c) Lophotrichous	√d) Atrichous	
223	Cell wall of gram positive	bacteria are stained .			
	a) Pink	b) Red	c) Green	✓d) Purple	
224	Which one is present is al	bacteria ?			
	√a) Cell membrane	b) Mesosome	c) Ribosomes	d) Plasmid	
225	Primary function of flagel	la is to help in .			
	a) Induction	√b) Motility	c) Conjugation	d) Adhesion	
226	Hollow , nonhelical , filam	entous appendages prese	nt in bacteria are .		
	a) Cilia	b) Fimbrie	c) Flagella	√d) Pili	
227	Slime provides greater pa	thogenicity to bacteria and	protects them against .		
	a) P nocytosis	√b) Phagocytosis	c) Invasion	d) Exorytos s	
228	The cell walls of most bac		molecule called .		

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	a) Teichoic acid	b) Lipoprotein	√c) Peptidoglycan	d) Polysaccharide	
229	Spores are resistant to a	dverse physical environme	nt condition such as .		
	a) High temperature	b) Desiccation	c) Chemical agents	✓d) All of these	
230	Dormant , thick-walled ,	desiccation resistant forms	present inside bacteria are .		
	√a) Cysts	b) Exospores	c) Endospores	d) Mesosome	
231	Bacteria that cannot syn	thesize their organic compo	ounds from simple inorganic s	ubstances are .	
	a) Autotrophs	√b) Heterotrophs	c) Symbionts	d) Lichen	
232	Chemosynthetic bacteria	a oxidize inorganic compour	nds like .		
	a) Ammonia	b) Nitrogen	c) Sulphur	√d) All of these	
233	Bacteria which get their	food from dead organic ma	tter are .		
	a) Parasitic	√b) Saprophytic	c) Symbiotic	d, Chemosynthetic	
234	Which one is a microaer	ophilic bacterium ?			
	a) E.coil	b) Spirochete	c) Pseudomonas	√g) Camphylobacter	
235	Which of the following i	s anaerobic bacteria ?			
	a) Pseudomonas	b) Escherichia coli	√c) Spirochete	d) Campylobacter	
236	Asexual reproduction in	bacteria occurs by .			
	a) Conjugation	b) Transduction	c) Transformation	√d) Binary Fission	
237	Bacteria divided at expo	nential rate during .			
	a) Stationary phase	b) Decline phase	√c) Log phase	d) Log phase	
238	Which is an aerobic bact				
	a) E cod	b) Spirochete	c) Campylobacter	√d) Pseudomonas	
239	The interval of time until the completion of next division is known as .				
	a) Incubation time	√b) Generation time	c) Multiplication time	d) Ce I cycle	
240		agulation of proteins and kil	man.	-,,	
	√a) Moist heat	b) Dry heat	c) Intense heat	d) Mild heat	
241			ents of microbes and kills the		
	a) Moist heat	√b) Dry heat 🧢	c) Intense heat	d) Mild heat	
242	Membrane filters are used to sterilize heat sensitive compounds like				
	a) Ant biotics	T b) Seras	c) Hormones	√d) All of these	
243	+	growth of vegetative cell ar	<u> </u>	- ayrın ar masa	
	a) Living materials	b) Living and non living	✓c) Non living materials	d) Living tissues	
	,	materials	t c, rron time, time.	,	
244	Methods of prevention	and treatment that have be	en introduced to control micr	obial diseases included .	
	a) Immunization	b) Antisepsis	c) Chemotherapy	√d) All of these	
245	The rays generally used	for sterilization process are			
	a) Alpha	b) Beta	√c) Gamma	d) X-rays	
246	Antibiotics are synthesiz	red and secreted by certain	bacteria , actinomycetes and		
	a) A gae	√b) Fungi	c) Lichen	d) Virus	
247	Misuse of antibiotic sucl	h as penicillin can cause .	•	•	
	√a) Allergic reactions	b) Headache	c) Deafness	d) Mental retardness	
248		ncal substances which are u	sed in treatment of Infectiou		
	a) Ant bod es	b) Antigens	✓c) Antibiotics	d) Disinfectants	
249	Lovastain is used for low		, , , , , , , , , , , , , , , , , , , ,		
	a) Pressure	b) Glucose	√c) Cholesterol	d) Neraspora	

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250	Which of the following is	not symptom of ergotism	1?	
	a) Psychotic Delusion	b) Convuls on	c) Gangrene	√d) Indigestion
251	Which is used to inhibit i	fungal growth ?		
	a) Lovastaın	b) Cyclosponn	c) Griseofulvin	d) Ergotin
252	Aspergillus fumigates ca	uses aspergillosis but only	in persons with defective im	mune system such as
	a) HAV	b) Hepatitis	c) HIV	√d) AIDS
253	Citric acid is obtained fro	m.		62
	a) Penici Lum	√b) Aspergillus	t) Sacchromyces	d) Nevrospora
254	Which one is an example	of foliose lichens ?		7.7.7
	a) Ramakna	b) Bacidia	r) Lecanora	, √d) Permena
255	They are ecolically impor	rtant as bioindicators of al	r pollution .	
	√a) Lichens	b) Mycorrhizae	c) Yeast	d) Viruses
256	Which one is not animal	fungal disease ?		
	a) Ringworm	b) Athletes foot	√c) Powdery mildew	d) Histoplasmosis
257	Which one is not plant d	Isease ?		
	a) Potato wilt	b) Powdery mildew	c) Ergot of rye	√d) Histoplasmosis
258	Candida albicans , a year	t, causes oral and vaginal	thrush i.e ,	
	a) Candid as s	b) Candidosis	√c) Both a & b	d) None of these
259	Which of the following is	not an example of poisor	to the second contract of	
	a) Death cap / death	b) Jack - O'lantern	c) Amanita	√d) Agaricus
	angel	mushroom		
260		Reino	leer moss is .	
	a) Mycorrhiza	√b) Lithen	c) Funarca	d) A ga
261	Ginkgo belongs to class.	47 47		
	a) Ang ospermae	b) Filicinease	✓c) Gymnospermae	d) Anthoceropsida
262	The term gymnosperma	literally means.		
	a) Enc osed seeded	√b) Naked seeded	c) Open seeded	d) Seedless
263	The megaporophylls bea	ring ovules are not folded	and joined at the margins to	form an ovary in .
	a) Filic neae	b) Dicotyledonae	c) Monocotyledonae	√d) Gymnospermae
264		aring ovules are not folder	d and joined at the margins t	
	a) Ovule	b) Seed	√c) Ovary	d) Fruit
265	1	re develop into female ge	metophyte which consist of	
	a) 3 Cells	b) 5 Cells	√c) 7 Cells	d) 9 Cells
266	1	4	60,000 known species of plan	
	√a) Ang osperms	b) Gymnosperms	c) Ferns	d) Bryophytes
267	Female gametophyte in		, -,	
	a) Ovary	b) Archegonium	√c) Seed	d) Embryd sac
268	An ovule is an integumen		A cl seed	at river he one
200	a) Microporangium	√b) Megasporangium	c) Sporangium	d) Seed
150		the completion of next di		al seen
269	a) Interphase	-	c) Reproductive time	d) Growth
170		√b) Generation time	c) reproductive time	d) Glowin
270	The part of flower which	· ·	a) Ourie well	1110
	a) Flower	b) Seed	c) Ovule wall	✓d) Ovary
271	Ovary wall develops into	ine.		

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	√a) Fruit	b) Vegetable	c) Seed coats	d) Pencarp
272	Double fertilization is a	haracteristic of		
	a) Gymnosperms	√b) Angiosperms	c) Bryophytes	d) Mosses
273	Which one of the follow	ing is the characteristics of m	onocots ?	
	a) 4 or 5 petals	√b) Scattered vascular bundles in stem	c) Netted veins	d) Woody stems
274	The class Angiospermae	is divided into two sub - clas	ses according to the numi	ber of cotyledons in the
	a) Zygote	b) Seed	√c) Embryo	d) None of these
275	Nonocot have			
	√a) Paral e	b) Net	t) Both a & b	d) None of these
276	The asexual reproduction	n is sponges occurs by .		~ -
	√a) Budding	b) Fragmentation	r) Spores	d) Condia
277	-	bearing animals, commonly	called.	
	a) Nematodes	b) Cnidarians	√c) Sponges	d) Roundworms
278	In most sponges this spo	ngocoel may be divided into		anals, lined by flagellated
	√a) Choanocytes	b) Pinacocytes	c) Amoebocytes	d) Phagocytes
279	The polyp is reduced and			1, 1011111
	a) Sea Anemon	b) Hydra	√c) Je ly f sh	d) Obe ia
280	Sea anemone belongs to	<u> </u>	4 c) 3 c 19 1 3 ii	0,000.0
0.44	√a) Coelentrata	b) Annelida	c) Arthropoda	d) Echoniodermate
281	Coral reefs are mostly fo		- a) ratiopood	of centariosetriace
*01	✓a) Ca cium carbonate	b) Silica	c) Chit n	d) Lignin
282	<u> </u>	obin contains an atom of .	- Cy Conten	at right
202	a) Magnesium Mg++	b) Phosphorus K++	c) Calcium Ca++	Ad Jean East
202	Which metal atom is pre		C) Calcium Cavy	√d) Iron Fe++
283			1 4-1 64-	l alt v
	a) Cu	b) Fe	√c) Mg	d} K
284	Chlorophyll a is .	100	100000	J. G. D J. J.
	a) Yellow green	√b) Blue green	c) Orange green	d) Yellow green dark
285		ia for chlorophyll " a " is .	1	
	√a) C55H72O5N4Mg	b) C55H72O4N5Mg	r) C55H70O5N4Mg	d) C55H70O5N5Mg
286		mainly absorbed by chloroph	+	
	√a) V olet blue and orange red	b) Violet and orange	c) Green and blue	d) Red and ind go
287	Magnesium is an import	ant nutrient in green plants a	is it is an essential compo	nent of .
	a) Prote n	b) Chlorophyll	c) Hemoglobin	√d) Glucose
288	The colour of chlorophyl	lbis.		,
	a) Orange red	√b) Yellow - green	c) Blue green	d) Orange - green
289		orm of chlorophyll a which a		, 0 0
	a) 670 nm	√b) 680 nm	c) 690 nm	d) 700 nm
290	,	nthetic light reactions are .	1 4	,
	a) ATP and NADH	√b) ATP , NADPH and O2	t) ATP and NADPH	d) ATP and NAD
291	Light can work in photos		-11111111111111111111111111111111111111	with a different
	√a) Absorbed	b) Reflected	c) Transmitted	d) Refracted
	Plastocyanin protein con	1 *	al Hairwiller	al renarted

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	a) Iron	√b) Copper	c) Magnessium	d) Potassium
298	Water splitting process o	f photosynthesis releasing o	rygen is called .	
	a) Glycolysis	√b) Photolysis	c) Hydrolysis	d) Electrolysis
294	Which of the following is	electron carrier?		
	a) P astocyanin	b) Cytochromes	c) Plastoquinone	√d) Al: of these
295	An enzyme NADP reduct:	ase transfers electrons from		
	√a) Fd to NADP	b) NADP to Fd	c) Fd to NADPH	d) Fd to ADP
296	Each photon of light excit	tes		
	a) Many electrons	b) 3 electrons	c) 2 electrons	√d) Single electrons
297	What is not produced du	ring cyclic electron flow?		
	a) Oxygen	b) ATP	c) NADPH	√d, Both a & c
298	Sugar is formed during .			1-1
	a) Dark independent	b) Dark dependent	√c) Light independent	d) Light dependent
	reactions	reactions	reactions m	reactions
299	The dark reaction consist	s of .	11.7	•
	a) Carbon fixation	b) Reduction	c) Regeneration	√d) All of these
300	During the dark reactions	of photosynthesis the main	process which occurs is .	
	a) Re ease of oxygen	b) Energy absorption	c) Formation of ATP	√d) Adding of hydrogen
			3. 10.	to carbon dioxide
301	For fixing of three molecu	iles of CO2 in Clavin cycle , w	rhat is needed ?	
	a) 6 ATP + 9 NADPH	<b>√</b> b) 9 ATP + 6 NADPH	c) 18 ATP + 9 NADPH	d) 3 ATP + 3 NADPH
302	The NADPH molecule wil	produce reducing power for	r the sugar in the .	
	a) Chem osmosis	b) Cyclic phosphorylation	√c) Calvin cycle	d) Electron transport
				chain
303		nolecule of glucose Calvin cy		
	a) Once	√b) Twice	c) Thrice	d) Four times
304	Which of the following is	The second second second		
	a) Drosera	b) Dionea	√c) Cuscuta	d) Sarracenia
305	Lichen is a symbiotic rela	tionship between an alga an	d .	
	a) Gymnosperm	b) Pteridophyte	√c) Fungus	d) Angrosperm roots
306	Root nodules are present	in.		
	a) A I photosynthetic	b) Gymnosperms	c) Non - leguminous	√d) Legum nous planst
	plants		plants	1.
307	All of the insectivorous p	1	1	1 15 4
	a) Heterotrophs	√b) Autotrophs	c) Saprotrophs	d) Parasitic
308	One of the following is no			
	a) Venus - fly trap	√b) Cuscuta	c) Sundew	d) Pitcher plant
309	of oxygen in and carbon i	dioxide out occurs because o		
	√a) Diffusion	b) Effusion	c) Digestion	d) None of these
310		rated from the alveolar air b	y extremely thin membran	es of the and alveoli
	a) Villi	b) Broncht	√c) Capillanes	d) Veins
311	In human being the respi	ratory pigment is .		
	√a) Haemoglobin	b) Biliubin	r) Myoglobin	d) Haemocyanin

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312	The maximum amo of blood	unt of oxygen which normal h	uman blood absorbs and carrie	es at the sea - level is abou				
	√a) 200 ml / 100 ml	b) 40 ml / 100 ml	c) 100 ml / 20 ml	d) None of these				
313	When oxygen press haemoglobin decre		, as in many cells and tissues ,	the oxygen saturation of				
	√a) 60 mm	b) 40 mm	c) 20 mm	d) None of these				
314	When carbon dioxid	de pressure increases , the oxy	gen tension					
	a) Increase	√b) Decrease	c) Both a & b	d) None of these				
315	Increased carbon di	oxide tension favours the grea	ater liberation of from the bloc	od to the tissue.				
	√a) Oxygen	b) Sulphur	t) Carbon mono oxicde					
316	Carboxyhaemoglob	in is formed when carbon dio:	kide combines with of he	semoglobin .				
	a) Oxygen	b) Amino group	c) Faster group	d) None of these				
317	Aboutcark	on dioxide is carried as bicart	onate ion combined with sodi	um in the plasma .				
	a) 80 %	√b) 70 %	c) 20 %	d) 50 %				
318	Carbon dioxide per	100 ml of venous blood is .		-				
	a) 50 ml	√b) 54 ml	c) 98 ml	d) 99 ml				
319	4 ml of carbon diox	ide per 100 ml of blood as it p	asses through the					
	√a) Lungs	b) Liver	c) Kidney	d) None of these				
320	Asthma is associate	d with severe paroxysm of dif	ficult					
	a) Sleep ng	b) Spreading	c) Walking	d) Breathing				
321	Respiratory distress syndrome is common in .							
	a) A I new borns	b) Abults	√c) Premature Infants	d) Old age people				
322	Smoking especially in young adults is the most potential threat of							
	√a) Lung cancer	b) Throat cancer	c) Kidney cancer	d) None of these				
323	Tuberculoris is caus	ed by						
	✓a) Mycobacterium tuberculos s	b) Smoking	c) Streptococcus	d) None of these				
324	How many molecul	es of oxygen can bind with a n	nolecule of myoglobin .					
	√a)01	b) 02	c) 03	d) 04				
325		nown as haemogl						
	a) Liver	b) Heart	√c) Muscle	d) None of these				
326	The volume of air ta	ken inside the lungs and expe	elled during exercise is about					
	a) 1.5	b) 2.5	√c)35	d) 4.5				
327	The amount of Cark	on dioxide present in air is ab						
	a) 0 01 to 0 02 %	b) 0 03 to 0.04 %	√c) 0.04 to 4 %	d) 0.05 to 0.07 %				
328	At rest we inhale ar	d exhale per munute .						
	a) 15 - 25 times	√b) 15 - 20 times	c) 10 - 15 times	d) 11 - 20 times				
329	The light falling on I	leaf surface is absorbed about						
	√a)1%	b) 25 %	c) 50 %	d) 100 %				
330	The shrinkage of pro		,	, ,				
	a) Incipient plasmol		c) Guttation	√d) Plasmotysis				
331		companion cells communicat		V = / . /Mai/10/13/3				
	a) Sieve pores	b) Casparian strip	√c) Plasmodesmata	d) Ce I membranes				
332		pth of roots of prosopis is .	7 - 7 2 Maintracallinates	,				

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	a) 40 meters	√b) 50 meters	c) 60 meters	d) 70 meters			
333	Path way of consulting interconnected protoplasts in roots cells is called.						
	a) Apopiast	√b) Symplast	c) Tonoplast	d) Protoplast			
334	Roots bear a dense cluster of tiny hair like structures which are extensions of .						
	√a) Ep derma ce ls	b) Pericycle cells	c) Endodermal celts	d) Cort cal cells			
335	Apoplast pathway becomes discontinous in endodermis due to .						
	a) Per cycle	√b) Casparian strip	c) Cortex	d) Xy <sup>ī</sup> em			
336	They theory called , pressure - Flow Theory , is the most acceptable theory for the transport in the phloem of						
	a) Gymnosperm	√b) Angiosperms	r) Bryophytes	d) None of these			
337	Water moves out of sie	ve tube cell by , low	ering the hydrostatic pressu	re.			
	a) Diffusion	b) Effusion	√c) Osmosis	d) None of these			

### Subjective Q.NO.2 (Ch=2,3,8,10,11)

	Most Important Questions	"Ch	τ .	Most Important Questions	Ch
T	What is heal capacity of water 1 Give its importance	2	2	Define enzymes	3
3.	Define protective to e of water	2	4.	Gracing and examples of enzymes activator	3
5,	D Iferentiate between Amylose and Amylopectin.	2	6.	Define colactor with example	3
7,	Differentiate between giveosidic and peptide bond	2	8.	Differentiate between Co-factor and Co-enzyme	3
9.	What are or gosacchar des?	2	10.	How is Prosthetic group different from Co- enzyme <sup>9</sup>	3
П	What are pids? Give two to es of waxes	2	12	Different ate between co-factor and activator	3
13	What are waxes?	2	14.	What is difference between pepsin and pepsinogen?	3
15.	Give general formula for an Animo Acid	2	16.	Gave any two characteristics of enzymes	3
17.	What are G obular proteins? Give examples	2	18.	Define lock and key model of enzyme	3
19.	Differentiate between Nucleoside and Nucleotide	2	20.	Different ate between reversible and reversible enzyme inhibitors	3
21	What is phosphodiester inkage ! Sketch.	2	22.	What are competitive and non-compet tive enzyme inhibitors?	3
	Most Important Questions	Ch		Most Important Questions	€h
23.	Enlist toar plant diseases caused by fugi	8	24.	What are tichens? Write about their ecological role	8
25.	D fferent ate between ob, gate and facultative parasite	8	26.	Define Lebens, Give 15 significance	8
27	Name the type and hyphae and sexual spores in sac fungi	8	28.	Differentiate between plasmogamy and karyogamy	8
29	Write down .wo samilarities between plans and fungi	8	30.	What are separate and non septate byphae'	8
31.	What are carmivorous fugi?	8	32.	What do you know about busing and parasexuality?	8
	Write four important points of algae.	8	34.	What are comdia and spores?	8
33.			36.	What is meant by parasexuality? Give its	8
	Differentiate between fungus like profists and fugi.	8	30.	*mportance	
35.	D fferent are between fungus like profists and fugi.  8 What is histoplasmosis?	8	38.	amportance 18 Differentiate between condrophores and coenocytic hypha	8
35. 37.				18. Differentiate between condiophores and	8

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	Most Important Questions	Ch		Ch
43,	What is hermaphrodite organism?	16	44. Name four harmful effects of insects.	10
45.	Write basic characteristics of chordates, give example.	10	46. Give three basic characteristics of phylum chordate.	10
47.	What are corel reefs?	10	48. What is polymorphism? Give example.	10
49.	Define swim bladder, Give its functions.	10	<ol> <li>Differentate between sac like and tube like digestive system.</li> </ol>	10
51,	What is regeneration? Give example.	10	52. What is metamorphosis?	10
53.	What are diploblastic animals?	10	54. Differentiate between parazoa and cumetazoa.	10
55.	Define placenta, Write its functions.	10	56. What are archaeopteryx?give its two characteristics.	10
57.	Write the two differences between protostomes and deuterostomes.	10	58. Differentiate between polyps and medusases.	10
59.	Differentiate between gastropods and cephalopods.	10	60. Differentiate between diploblastic and triploblastic organism.	10
61.	What is regeneration, give its importance.	10	62. Write down affinities of echinoderm with hemichordates.	10
	Most Important Questions	Ch	Most Important Questions	Ch
63,	Give the importance of ATP.	11	64. What are accessory pigments? Give their one importance.	11
65.	Define the term Bioenergetics.	11	66. What is fermentation? Give its two types.	11
67.	What is glycolysis? Where it takes place in cell?	11	68. Differentiate between antenna complex and reaction center	11
69.	How action spectra can be obtained?	11	70. Give the function spectrophotometer.	11
71.	What is cellular respiration?	11	72. Define glycolysis. Where does it take place?	11
73.	What is payoff phase of glycolysis?	11	74. Write the photolysis of water in photosynthesis.	11
75.	How does carbon dioxide absorb by cell wall of mesophyll cells?	11	76. What is Z-scheme of photosynthesis?	11
77.	Define photosynthesis with equation.	11	<ol> <li>Differentiate between photophosphorylation and oxidative photophosphorylation.</li> </ol>	11
79.	What do you mean by action spectrum.	11	80. Define alcoholic fermentation. Write its equation.	11

#### Q.NO.3 (Ch=1,4,7,9,14)

Most Important Questions	Ch	Most Important Questions	Ch
1. What is biome?	1	2. Write down sabent features of cell theory.	4
3. What is hydroponic culture technique?	1	4. What is endosytosis?	4
5. Differentiate between deductive and inductive reasoning.	1	<ol><li>What is endocytosis? Differentiate betwenn phagocytosis and pinocytosis.</li></ol>	4
7. Differentiate between micro and macromolecules?	1	8. Define differentially permeable membrane.	4
9. What is biome?	1	10. What are storage diseases? Give an example.	4
11. Write the name of four eras of geological times.	1	12. Give the important functions of cytoplasm.	4
13. What is pylatic lineage?	1	14. What is chromoplast? Give its functions.	4
15. Define theory. Give important features of a god theory.	1	16. Give the chemical composition of primary and secondary cell wall.	4
17. Define population, give its one example.	1	18. What are microfilaments? Give their functions.	4
19. What is deductive reasoning? Give one example.		20. Define fluid mosaic model of cell membrane.	4
21. Define parasitology.	1	22. Write down two functions of golgi apparatus.	4
23. Differentiate between anatomy and morphology.	1	24. Give the function of endoplasmic reticulum.	4
25. Define ecosystem with an example.	1	26. Define autophagosome.	4
27. Differentiate between gene therapy and chemotherapy.	1	28. What is resolution of human eye and electron microscope?	4
Most Important Questions	Ch	Most Important Questions	Ch

29. What is sleeping sickness?	7	30. Differentiate between ovule and seed.	9
31. Write down functions and micro and macro nuceli in ciliates.	7	32. Why bryophytes are called amphibious plants?	9
<ol> <li>Write down four characteristics and green algae similar to plans.</li> </ol>	7	34. Differentiate between microphyll and megaphyll.	9
35. Write down two diffenreces between fungi and oomycotes.	7	36. Define double fertilization.	9
37. What are choanoflagellates?	7	38. Write down two steps involved in evolution of seed.	9
39. What are protists? How are they different from animals and plants?	7	40. Describe adaptation of bryophytes to land habitat.	9
41. What are trichonymphas?	7	42. Write two advanced characteristics of anthoceropsida sporophyte.	9
43. How algae differ from plants?	7	44. What are gymnosperms? Give an example.	9
45. Write down two characteristics of ciliates.	7	46. Differentiate between bryophytes and tracheophytes.	9
47. How ciliates are different from other protozoans?	7	48. Define ceremate vernation	9
49. Write down two characteristics of apicomplexans.	7	50. Define ovule and embryo sac.	9
51. What is chlorella? Give its importance.	7	52. What are fronds?	9
53. Write down two characteristic of dinoflagellates.	7	54. Write botanical name of two plants belong to family solanaceae.	9
55. Write four important features of algae.	7	56. Differentiate between microgametophyte and megagametophyte.	9
57. How do flagellates get food?	7	72_ 300	
Most Important Questions	Ch	Most Important Questions	Ch
58. What is guttation?	14	<ol> <li>Differentiate between single and double circuit heart.</li> </ol>	14
60. Define immunity.	14	61. What is humoral immune response.	14
62. Differentiate between active and passive immunity.	14	63. Differentiate between thrombus and embolus.	14
64. Differentiate between plasmolysis and deplasmolysis.	14	65. Describe CO <sub>2</sub> concentration in artery and venous blood.	14
66. What is single circuit heart? Give an example.	14	67. What is imbibition?	14
68. Differentiate between apoplast and symplast pathway.	14	69. What is honey dew? Give its composition.	14
70. What is pressure potential?	14	<ol> <li>What are factors affecting capacity of hemoglobin to combine with oxygen.</li> </ol>	14
72. What are blue babies?	14	73. What do you know about bleeding in plants?	14
74. What is pressure flow theory? Who proposed it?	14	75. What is cell-mediated and humoral immune response?	14

Q.NO.4 (Ch=5,6,12,13)

Most Important Questions	Ch	Most Important Questions	Ch
1. Write down four characteristics of viruses.	5	2. Define species and virology.	. 5
3. What are pocks?	5	4. What are prions?	5
<ol><li>Write four names of viral diseases common in human beings.</li></ol>	5	Define binomial nomenclature. Give an example.	5
7. What are symptoms of small pox?	5	Differentiate between procariotique and eucariotique.	5
9. Sketch and label diagram of bacteriophage.	5	<ol> <li>Write down five postulates of germ theory of disease by Robert Koch.</li> </ol>	5
<ol> <li>Differentiate between gram positive and gram negative bacteria.</li> </ol>	6	12. Name three general shapes of bacteria and explain only one.	6
13. Write down misuses of antibiotics.	6	14. Differentiate between tetrad and sarcina.	6

15. What are pilli? Give their functions.	6	<ol> <li>Differentiate between lophotrichous and amphitrichous.</li> </ol>	6
Differentiate between streptococcus and staphylococcus bacteria.	6	18. Differentiate between amphitrichous and peritrichous bacteria.	6
Most Important Questions	Ch	Most Important Questions	Ch
19, What is rubisco? Give its functions.	13	20. What is respiratory distress syndrome?	13
21. What are spiracles? Give their functions.	13	22. What is diving reflex?	13
23. How air is belter medium for respiration than water.	13	24. What is lungs cancer?	13
25. What is asthma? Give its cause.	13	26. Why oxygen can be easily obtained from air as compared to water?	13
27. Write different ways of respiration in frog.	13	28. How does respiration take place in earthworm?	13
29. What is larynx or voice box?	13	30. What are alveoli? Give their dunctions.	13
31. What is diaphragm? In which group of animals it is found?	13	32. Give the composition of breath air in humans.	13
33. Differentiate between bronchi and bronshioles.	13	<ol> <li>Give two properties of respiratory surfaces in animals.</li> </ol>	13
35. What is emphysema?	13	36. What is photorespiration?	13
37. Write two properties of respiratory surfaces.	13	38. Differentiate between pulmonary and cutaneous respiration.	13
39. What is chlorosis and what is their cause?	12	40. Write only two functions of oral cavity.	12
41. What are the main reason of chlorosis in plants?	12	42. Define peristalsis.	12
43. Discuss parasitic nutrition in plants.	12	44. What is the advantages of a digestivetract as compared with a digestive cavity?	12
45. What are root nodules? Give their role.	12	46. Differentiate between chyme and bolus.	12
47. What is detritus feeding? Give examples.	12	48. Describe the role of trypsin in digestion.	12
49. What is filter feeding?	12	50. Give two functions of human liver.	12
51. What are fluid feeders? Give example.	12	52. What is bile? Give its functions.	12
53. Differentiate between facultative and obligate parasite.	12	54. Define Villi? write down functions of Villi.	12
55. Define gastrovascular cavity with example.	12	56. Give the role of large intestine of human.	12
<ol> <li>Define sac like digestive system and tube like digestive system regarding their efficiency.</li> </ol>	12	58. What is Dyspepsia?	12
59. Differentiate between Herbivores and Carnivores.	12	60. How adipose tissue is formed?	12
61. Differentiate between ingestion and Egestion.	12	62. Write down causes and treatment of anorexia nervosa.	12
63. Differentiate between detritivores and omnivores.	12	64. What is ulcer?	12
65. Differentiate between absorption and assimilation	12	66. Write only two functions of oral cavity.	12

#### **LONG QUESTIONS**

	Question No. 5						
1	(a)	How study of Biology helped mankind to improve production of food?	(b)	Soil water moves and reaches xylem tissues by various pathways, explain.			
2	(a)	What is the role of study of Biology in the welfare of mankind in the field of protection and conservation of environment?	(b)	Discuss two main types of immunity.			

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3	(a)	Give various components and functions of Lymphatic System.	(b)	Discuss transpiration as a necessary evil.
		Questio	n N	0. 6
1	(a)	Explain mutualistic nutrition in fungi.	(b)	Describe biological properties and importance of water.
2	(a)	Describe asexual reproduction in fungi.	(b)	What are polysaccharides? Describe different types and give examples.
3	(a)	Explain various economic gains and losses due to fungi.	(b)	Write the Watson and Crick model of DNA.
		Questio	n N	0. 7
1	(a)	Explain about use and misuse of antibiotics.	(b)	Describe the different adaptive characters for terrestrial environment in bryophyte.
2	(a)	Discuss nutrition in bacteria.	(b)	Discuss evolution of megaphyll leaf.
3	(a)	Describe habitat, structure and reproduction in nostoc.	(b)	Describe prothallus of adiantum and What is alternation of generation? Give its significance
		Questio	n N	0. 8
1	(a)	Describe some viral diseases, which are common in Pakistan.	(b)	What is photo phosphotylation? Explain non-cyclic photo phosphorylation.
2	(a)	What is hepatitis? Give its symptoms and discuss its three common types.	(b)	Give in detail the phases of Calvin cycle.
3	(a)	Describe lytic cycle of bacteriophage (with diagram).	(b)	Sketch Krebs Cycle, (no description).
		Questio	n N	0. 9
1	(a)	Discuss structure and functions of endoplasmic reticulum.	(b)	Give the role of large and small intestine in human beings.
2	(a)	What are plastids? Explain the structure and function of chloroplast. Draw figure	(b)	Describe digestion in hydra.
3	(a)	What are lysosomes? Explain their phagocytic role with the help of diagram.	(b)	Discuss the process of nutrition in insectivorous plants.